

NO 100 10430
PCT

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
25 January 2001 (25.01.2001)

PCT

(10) International Publication Number
WO 01/06007 A3

(51) International Patent Classification: C12N 15/10,
B03D 1/016, G01N 33/53, C12Q 1/68

(21) International Application Number: PCT/NO00/00245

(22) International Filing Date: 20 July 2000 (20.07.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
9917111.3 21 July 1999 (21.07.1999) GB

(63) Related by continuation (CON) or continuation-in-part
(CIP) to earlier application:
US 60/146,865 (CIP)
Filed on 3 August 1999 (03.08.1999)

(71) Applicant (for all designated States except US): NY-
COMED IMAGING AS [NO/NO]; Intellectual Property
Dept., Nycoveien 1-2, P.O. Box 4220 Nydalen, N-0401
Oslo (NO).

(75) Inventors; and

(75) Inventors/Applicants (for US only): KULSETH, Mari,
Ann [NO/NO]; Nycomed Imaging AS, Nycoveien 1-2,
P.O. Box 4220 Nydalen, N-0401 Oslo (NO). LØVHAUG,
Dagfinn [NO/NO]; Nycomed Imaging AS, Nycoveien 1-2,
P.O. Box 4220 Nydalen, N-0401 Oslo (NO). GODAL,
Aslak [NO/NO]; Nedre Silkestrå 16, N-0375 Oslo (NO).

(81) Designated States (national): JP, NO, US.

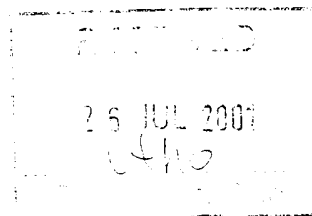
(84) Designated States (regional): European patent (AT, BE,
CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC,
NL, PT, SE).

Published:

— with international search report

(88) Date of publication of the international search report:
19 July 2001

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.



WO 01/06007 A3

(54) Title: METHOD FOR THE IDENTIFICATION OF A RECEPTOR

(57) Abstract: A method for the identification and characterization of a receptor in target tissue for which a selected vector has affinity, wherein a transfected cell line expressing the receptor is added to a suspension of encapsulated microbubbles to which the selected vector is coupled and allowing the microbubbles and cells coupled thereto to float to the surface of the suspension. Upon isolating the microbubble-bound cells at the surface, these may be cultured to study the receptor, or cells may be lysed, amplifying the receptor-encoding cDNA and sequencing the cDNA.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/NO 00/00245

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: C12N 15/10, B03D 1/016, G01N 33/53, C12Q 1/68

According to International Patent Classification (IPC) is to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: C12Q, C12N, B03D, G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI, EPODOC, DIALOG, MEDLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	WO 9955837 A2 (NYCOMED IMAGING AS), 4 November 1999 (04.11.99), page 11, line 36 - page 12, line 9; page 12, line 30 - line 35; page 17, line 27 - line 35 --	1-9
A	WO 9818500 A2 (NYCOMED IMAGING AS), 7 May 1998 (07.05.98), page 44, line 1 - line 11; page 140, line 9 - line 33 -- -----	1-9

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"B" earlier application or patent but published on or after the international filing date

"C" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another claim or other special reason (as specified)

"D" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"F" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"G" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"H" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

14 November 2000

01.02.2001

Name and mailing address of the ISA
European Patent Office

Authorized officer

Enida Plvm Forsbell 10611

INTERNATIONAL SEARCH REPORT

SA 294389

Information on patent family members

02/11/00

International application No.

PCT/NO 00/00245

WO	9955837	A2	04/11/99	AU	3719799	A	15/11/99
				GB	9809083	D	00/00/00
				GB	9809085	D	00/00/00
				CN	1244069	A	09/02/00
				EP	0967723	A	29/12/99
				JP	11353300	A	24/12/99
				US	6057705	A	02/05/00

WO	9818500	A2	07/05/98	AU	4718297	A	22/05/98
				AU	4786697	A	22/05/98
				AU	4786797	A	22/05/98
				AU	4786897	A	22/05/98
				AU	4786997	A	22/05/98
				AU	4787097	A	22/05/98
				BG	103438	A	31/01/00
				BG	103439	A	31/01/00
				BR	9712683	A	19/10/99
				BR	9713978	A	02/05/00
				CN	1234742	A	10/11/99
				CN	1238700	A	15/12/99
				CZ	9901494	A	15/09/99
				EP	0946202	A	06/10/99
				EP	0963209	A	15/12/99
				EP	0971747	A	19/01/00
				EP	0973552	A	26/01/00
				EP	0991427	A	12/04/00
				EP	1007101	A	14/06/00
				GB	9622366	D	00/00/00
				NO	991889	A	28/06/99
				NO	991890	A	28/06/99
				US	6051207	A	18/04/00
				WO	9818495	A	07/05/98
				WO	9818496	A	07/05/98
				WO	9818497	A	07/05/98
				WO	9818498	A	07/05/98
				WO	9818501	A	07/05/98
				GB	9622369	D	00/00/00
				AU	4020297	A	06/03/98
				GB	2333513	A	28/07/99
				GB	9702195	D	00/00/00
				GB	9903517	D	00/00/00
				AU	7068798	A	13/11/98
				EP	0977600	A	09/02/00
				GB	9708265	D	30/00/00
				WO	9847541	A	29/10/98
				GB	9711837	D	00/00/00
				GB	9711839	D	00/00/00
